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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named
Inventor : Brendan J. Frey et al.

Appln. No. : 09/812,524

Filed : March 20, 2001

For : METHOD AND APPARATUS FOR
REMOVING NOISE FROM FEATURE
VECTORS

Docket No.: M61.12-0345

Group Art Unit: 2644

Examiner:

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21st DAY OF June, 20⁰²

Theodore M. Magee
PATENT ATTORNEY

Sir:

The patents or publications listed on the enclosed PTO Form-1449 are submitted pursuant to 37 C.F.R. § 1.97. Copies of the patents or publications cited are enclosed.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

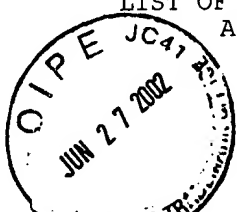
Respectfully submitted,

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FORM PTO-1449		Atty. Docket No.: M61.12-0345	Appl. No.: 09/812,524
 <p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p>		First Named Inventor:	
		Brendan J. Frey et al.	
		Filing Date	Group Art:
		March 20, 2001	2644

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	09/999,576	11/15/01	Attias et al.			
AB						
AC						
AD						

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
AE						
AF						


OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AG	A.P. Varga and R.K. Moore, "Hidden Markov Model Decomposition of Speech and Noise," in Proceedings of the International Conference on Acoustics, Speech and Signal Processing, IEEE Press., pp. 845-848 (1990).
AH	S. Boll, "Suppression of Acoustic Noise in Speech Using Spectral Subtraction," IEEE Transactions on Acoustics, Speech and Signal Processing, Vol. 27, pp. 114-120 (1979).
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AL	M.S. Brandstein, "On the Use of Explicit Speech Modeling in Microphone Array Application," In Proc. ICASSP, pp. 3613-3616 (1998).

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BC						
BD						

FOREIGN PATENT DOCUMENTS

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BE						
BF						


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BG	A. Dembo and O. Zeitouni, "Maximum A Posteriori Estimation of Time-Varying ARMA Processes from Noisy Observations," IEEE Trans. Acoustics, Speech and Signal Processing, 36(4): 471-476 (1988).
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BK	R. Neal and G. Hinton, "A View of the EM Algorithm that Justifies Incremental, Sparse, and Other Variants," pp. 1-14 (undated).
BL	J. Lim and A. Oppenheim, "All-Pole Modeling of Degraded Speech," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-26, No. 3, pp. 197-210 (June 1978).

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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
CE						
CF						

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CG	Y. Ephraim, "A Bayesian Estimation Approach for Speech Enhancement Using Hidden Markov Models," IEEE Transactions on Signal Processing, Vol. 40, No. 4, pp. 725-735 (April 1992).
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CJ	B. Frey et al., "ALGONQUIN: Iterating Laplace's Method to Remove Multiple Types of Acoustic Distortion for Robust Speech Recognition," In Proceedings of Eurospeech, 4 pages (2001).
CK	
CL	
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